



CINT2000 Result

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Compaq Computer Corporation AlphaServer GS160 Model 6/731

SPECint_rate2000 = 4.61
SPECint_rate_base2000 = 4.09

SPEC license #: 2 | Tested by: Compaq NH | Test date: Apr-2000 | Hardware Avail: Jun-2000 | Software Avail: Jul-2000

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	1	460	3.53	1	405	4.01
175.vpr	1	444	3.66	1	426	3.81
176.gcc	1	267	4.78	1	216	5.90
181.mcf	1	1092	1.91	1	844	2.47
186.crafty	1	182	6.36	1	186	6.24
197.parser	1	745	2.80	1	534	3.91
252.eon	1	237	6.36	1	241	6.27
253.perlbnk	1	476	4.39	1	432	4.83
254.gap	1	453	2.82	1	429	2.97
255.vortex	1	459	4.80	1	365	6.05
256.bzip2	1	391	4.45	1	348	5.00
300.twolf	1	565	6.16	1	563	6.18

Hardware

CPU: Alpha 21264A
 CPU MHz: 731
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip
 CPU(s) orderable: Up to 16
 Parallel: No
 Primary Cache: 64KB(I)+64KB(D) on chip
 Secondary Cache: 4MB off chip per CPU
 L3 Cache: None
 Other Cache: None
 Memory: 4GB
 Disk Subsystem: mfs
 Other Hardware: Ethernet

Software

Operating System: Tru64 UNIX T5.1-9 (Release for GS160,GS320)
 Compiler: Compaq C T6.3-120-44A2I
 DIGITAL C++ V6.1-029-408B6
 File System: mfs
 System State: Multi-user

Notes/Tuning Information

Baseline C : cc -arch ev6 -fast GEMFB -non_shared
 C++: cxx -arch ev6 -O2 ONESTEP

GEMFB: fdo_pre0 = mkdir /tmp/pb; rm -f /tmp/pb/\${baseexe}
 PASS1_CFLAGS = -prof_gen_noopt -prof_dir /tmp/pb
 PASS2_CFLAGS = -prof_use_feedback -prof_dir /tmp/pb
 (base uses directory /tmp/pb; peak uses /tmp/pp)

Peak: cc [except eon: cxx] -v -arch ev6 ONESTEP plus:

164.gzip: -g3 -fast -O4 +GEMFB
 175.vpr: -g3 -fast -O4 +GEMFB
 176.gcc: -g3 -fast -O4 -xtaso_short +GEMFB
 181.mcf: -g3 -fast -xtaso_short +GEMFB
 186.crafty: -g3 -fast -O4 -inline speed
 197.parser: -g3 -fast -O4 -xtaso_short +GEMFB
 252.eon: -O2
 253.perlbnk: -g3 -fast +GEMFB -non_shared
 254.gap: -g3 -fast -O4 +GEMFB
 255.vortex: -g3 -fast +GEMFB
 256.bzip2: -g3 -fast -O4 +GEMFB



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Notes/Tuning Information (Continued)

300.twolf: -g3 -fast -O4 +GEMFB

Portability: gcc: -Dalloca=__builtin_alloca; crafty: -DALPHA
perlbmk: -DSPEC_CPU2000_DUNIX; vortex: -DSPEC_CPU2000_LP64
gap: -DSYS_HAS_CALLOC_PROTO -DSYS_IS_BSD -DSYS_HAS_IOCTL_PROTO -DSPEC_CPU2000_LP64

Compaq C T6.3 is posted at <http://www.unix.digital.com/dtk/>
It has been available as an ADK (Advanced Developers' Kit)
since February, 2000; the final version will be posted
in July, 2000.

The SPEC CPU2000 binaries were compiled under Unix V4.0F.
sysconfigtab settings:

```
max_proc_per_user = 4096
max_threads_per_user = 4096
per_proc_data_size = 21474836480
max_per_proc_data_size = 21474836480
per_proc_address_space = 21474836480
max_per_proc_address_space = 21474836480
```

Tru64 Unix V5.1 will ship in Jul-2000 for use on the GS160,
GS320 platforms; the final version will ship Sep-2000